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補正書

(54) Title : GENE SIGNATURE

(54) 発明の名称 ジーン・シグナチャー

(57) Abstract

A 3'-directed cDNA library which accurately reflects the abundance ratio of mRNA in a cell has been prepared from various human tissues, and sequencing of the cDNAs contained in the library has been conducted to examine the incidence of each cDNA in each tissue. As each cDNA has expression information with each tissue corresponding to the mRNA concentration, these cDNAs are usable as a probe or primer for detecting cell anomaly or discriminating cells. The cloned gene can produce proteins utilizable as a medicine or the like.

Identifier:	AAN00001 DNA Sequence 134 BP
Release Info:	Derwent Geneseq Database Release No. 200124; Date released 26-NOV-01
Database XReference:	WPI; 1995-206931/27.
Accession Number:	AAT22548
Patent Title:	Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues
Patented by:	(MATS/) MATSUBARA K.;(OKUB/) OKUBO K.
Inventor:	Matsubara K, Okubo K
Description:	Human gene signature HUMGS04161.
Patent Number:	WO9514772-A1
Patent Publication Date:	01-JUN-1995
Modification Date:	01-OCT-1996 (first entry)
Local Filing:	11-NOV-1994; 94WO-JP01916
Priority:	12-NOV-1993
Abstract:	A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in AAT19001-T26837 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'- untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.
KeyWords:	Gene signature;messenger RNA;mRNA;relative abundance;frequency;human;cloning;mapping;non-biased library;diagnosis;detection;cell typing;abnormal cell function;ss.
Organism	Homo sapiens.
Sequence Composition:	Sequence 134 BP; 32 A; 31 C; 47 G; 23 T; 1 other;
Sequence:	>AAT22548 WO9514772-A1 PA (MATS/) MATSUBARA PR 12-NOV-1993 PF 11-NOV-1994 Human gene signature HUMGS04161. [Homo sapiens.] GATCTGGACTGGCTGGGAGTGGGGAGGGCGTGGAGACAGTCTACGGAAAGCGCTANAGGA CCCCCGAGAGGGTGCAGTGGAGCCCTGAGCATTGTAATATGCGGCCCAGCCTATAAACAG CCTCCGTGCTTAAA